Transferable Solution Sheet

Identification of a Transfer Opportunity for the ETU Call · Key information for potential takers

Green living areas | Interreg Euro-MED | Co-funded by the European Union | ECOSYSTEMIC TRANSITION HUB ETU

PROJECT ACRONYM
CO2 PACMAN

Full project title
COoperation and CO-designing PArtnership for CliMAte Neutrality

TOP SOLUTION TITLE
Climate-Neutrality Scenario Development Toolkit

Modular toolkit to co-develop territorial climate-neutrality scenarios

THEMATIC AREA
Urban governance & planning tools

SOLUTION TYPE
Methodology, guidelines and scenario tool

CHALLENGE ADDRESSED
Territorial climate-neutrality pathways

SPECIFIC OBJECTIVE
2.4 · Climate change adaptation and risk prevention

1 Solution Overview

Territorial challenge addressed
Territories need evidence-based, participatory pathways towards climate neutrality, often starting from fragmented or inconsistent data.

Description of the solution
Modular toolkit combining IPCC-aligned GHG inventories, landscape analysis, citizen and youth engagement, open innovation, the interactive CO2 PACMAN Tool for exploring decarbonisation scenarios, with a harmonised data framework across sectors and virtual reality (VR).

Documents and links
CO2 PACMAN – ETU solution page

Primary target users
Provincial or regional authorities with an office or department able to cooperate with the University of Siena.

2 Replicability and Adaptation Potential

Potential applications
Developed and tested on the islands of Brač, Crete and Elba. Components can be applied individually or combined, according to local needs. The CO2 PACMAN Tool adapts to new territories using their GHG inventory and local data to customise and simulate decarbonisation policies.

Suitable territorial contexts
Territories preferably at provincial or regional level that already have a GHG inventory developed with IPCC or GPC methodology, covering at least one year between 2019 and 2025.

3 Mentoring and Technical Support Offered

Giver ticks the schemes offered

FULL TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
. The University of Siena will support full takers in adapting the CO2 PACMAN Tool to their territory. Based on the GHG inventory the taker provides (developed in accordance with IPCC or GPC standards), UNISI will create a dedicated territorial profile in the Tool. The decarbonisation policies already integrated into the Tool will then be customised using territory-specific data provided in cooperation with the relevant local or regional offices.
The mentoring process will include two training sessions:
- An introduction to the CO2 PACMAN Tool, its structure, functionalities and potential applications.
- A demonstration of the territory-specific version of the Tool, including the customised decarbonisation policies and their simulation.

Upon request, UNISI may also provide technical support for a public co-designing session of the Tool organised by the taker.

Indicative outcomes and outputs
A territory-specific version of the CO2 PACMAN Tool, configured using the taker's GHG inventory and additional territorial data, with customised decarbonisation policies and the possibility to simulate their potential impacts. Full takers will also acquire the knowledge and practical skills needed to use the Tool, explore different decarbonisation scenarios, and support evidence-based co-designed decision-making in their territory.

SOFT TAKER MENTORING SCHEME [X] *Offered by the giver (type X)*

Potential mentoring activities and materials
Online knowledge-exchange session by UNISI on the CO2 PACMAN Toolkit presenting its methodology, main components, and lessons learned from its application during the study phase.
During the online session, UNISI will focus on transferring the Toolkit to other territorial contexts, including key elements, data requirements, and the conditions needed for successful adaptation and replication. The session will also share relevant project materials and technical documentation to support the Toolkit's potential transfer.

Indicative outcomes and outputs
Better understanding of the CO2 PACMAN Toolkit and the conditions for its replication; soft takers can assess its relevance, identify the most suitable components and explore future adoption.

4 Requirements for Transfer

Requirement	Information for full takers	Information for soft takers	Stage
Technical profiles and baseline competencies	Office or department available to cooperate with the University of Siena and facilitate access to relevant territorial data.	Person interested in exploring the Toolkit's potential application.	Start
Data and information	GHG inventory (IPCC or GPC), at least one year 2019–2025. Additional territory-specific data may be required during mentoring to customize decarbonization policies; such as mobility, geospatial and land-use data	None	Start
Digital resources	Access to the CO2 PACMAN Tool, provided by the University of Siena.	None	Mentoring
Stakeholder involvement	Cooperation with local technical staff to provide data and support the customisation of decarbonisation policies.	Participation of representatives in the knowledge-exchange session.	Mentoring
Operational conditions	Data harmonisation and configuration of the CO2 PACMAN Tool using the territory's GHG inventory and additional data needed to customise decarbonisation policies.	None	Mentoring
Regulatory aspects	Authorisations to share the GHG inventory and territorial data with UNISI, in compliance with applicable data protection rules.	None	Start
Other relevant requirements	No additional requirements beyond those specified above.	None	Start

Soft-taker column: fill only if the soft scheme is offered. Stage: Start = essential to initiate transfer · Mentoring = can be developed during mentoring · Later = needed only for subsequent implementation.